

CLAIMS

1. A movable fence comprising a door pocket provided on a platform so as to face to a car arriving at the platform; and a door body advancing and retreating through an opening of the door pocket, characterized in that

an opening for advancing and retreating the door body is formed at both ends of the door pocket in an advance/retreat direction of the door body; a length in the advance/retreat direction of the door body is made longer than a length of the door pocket between the both ends; and the door body is opened so as to correspond to a boarding-alighting port of the car.

2. The movable fence according to claim 1, characterized in that opening and closing of the door body are controlled by a control unit according to information about arrangement of boarding-alighting ports of the car arriving at the platform.

3. The movable fence according to claim 1, characterized in that an indicator capable of providing arbitrary display or non-display is provided along the advance/retreat direction of the door body; and display of the indicator is provided so as to correspond to an open position of the door body.

4. The movable fence according to claim 1, characterized in that support members are provided at intervals in longitudinal and transverse directions of the door body.

5. The movable fence according to claim 1, characterized in that a roll curtain is mounted on the door body.

6. The movable fence according to claim 1, characterized in that an accordion curtain is mounted on the door body.

7. The movable fence according to claim 1, characterized in that an outside plate is mounted on the door body.

8. The movable fence according to any one of claims 1 to 7, characterized in that

at least a platform side of the door pocket is covered with the door body.

9. The movable fence according to any one of claims 1 to 8, characterized in that a pair of door bodies are disposed in the door pocket, and the length in the advance/retreat direction of the door body is made longer than the length of the door pocket between the both ends.

10. The movable fence according to any one of claims 1 to 9, characterized in that a fixed fence is provided on the platform between the door body and a door body adjacent to the door body.

11. The movable fence according to any one of claims 1 to 10, characterized in that advance and retreat of the door body is carried out by a combination of a toothed pulley and a toothed belt, a combination of a chain and a sprocket, a combination of a rack and a pinion, a hydraulic actuator, or a pneumatic actuator.

12. The movable fence according to any one of claims 1 to 11, characterized in that the door pockets are arranged at right angles to the direction in which the car arrives at the platform.

13. The movable fence according to any one of claims 1 to 11, characterized in that the door pockets are arranged in a zigzag form along the direction in which the car arrives at the platform.

14. A movable fence comprising a door body which advances and retreats to an outside and inside through an opening of a door pocket, characterized in that an opening for advancing and retreating the door body is formed at both ends of the door pocket in an advance/retreat direction of the door body; a length in the advance/retreat direction of the door body is made longer than a length of the door pocket between the both ends; and a gateway is opened and closed or the opening is adjusted by movement of the door body.

15. An opening/closing method for a movable fence, which uses a door pocket

provided on a platform so as to face to a car arriving at the platform; a door body advancing and retreating through an opening of the door pocket; and a control unit incorporating data formed into a pattern for each car based on door position information inherent in the car, comprising the steps of:

sending a pattern of door position information of the car to the platform in a wireless mode;

receiving the pattern of door position information of the car arriving at the platform by a platform side;

identifying door positions of the car arriving at the platform by selecting the pattern of door position information inherent in the car;

determining a slide amount of the door body in connection with the pattern of door position information of the car; and

opening the door body according to the slide amount of the door body.

16. The opening/closing method for a movable fence according to claim 15, characterized in that the pattern of door position information of the car is sent to the platform by a transmitter of the car arriving at the platform.

17. The opening/closing method for a movable fence according to claim 16, characterized in that regarding a step of forming a pattern of the door position information of the car, when train composition of the car is changed, a changed pattern of door position information of the car in a train after composition change is sent to the platform in a wireless mode.

18. The opening/closing method for a movable fence according to any one of claims 15 to 17, characterized in that the step of opening the door body according to the slide amount of the door body enables the door body to advance and retreat through openings at both ends of the door pocket of the door body.

19. The opening/closing method for a movable fence according to any one of claims 15 to 18, characterized in that the step of opening the door body according to the slide amount of the door body enables one door body to advance and retreat while projecting from openings at both ends of the door pocket of the door body.